

Figure 1A

1 CATATTGCCAAACTGAACCTCTCTTGTGTTCTTGCAGATGAAAGGAGACAACCAGATGAATG 60
 1 M N E 3

61 AGCCACTAGACTATTTAGCAAATGCTTCTGATTPCCCCGATTATGCAGCTGCTTTGGAA 120
 4 P L D Y L A N A S D F P D Y A A A F G N 23

121 ATTGCACTGATGAAAACATCCCACCTCAAGATGCACACTACCTCCCTGTTATTATGGCATT 180
 24 C T D E N I P L K M H Y L P V I Y G I I 43

181 TCTTCCTCGTGGGATTCCAGGCAAATGCAGTAGTGTATCCACTACATTTCAAAATGA 240
 44 F L V G F P G N A V V I S T Y I F K M R 63

241 GACCTTGGAAAGAGCAGCACCATCATTATGCTGAACCTGGCCTGCACAGATCTGCTGTATC 300
 64 P W K S S T I I M L N L A C T D L L Y L 83

301 TGACCAGCCTCCCCCTCCTGATTCACTACTATGCCAGTGGCGAAAATGGATCTTGGAG 360
 84 T S L P F L I H Y Y A S G E N W I F G D 103

361 ATTTCATGTGTAAGTTATCCGCTTCAGCTTCAGCTTCACCTGTATAGCAGCATCCTCT 420
 104 F M C K F I R F S F H F N L Y S S I L F 123

421 TCCTCACCTGTTCAAGCATCTCCGCTACTGTGTGATCATTCAACCAATGAGCTGCTTT 480
 124 L T C F S I F R Y C V I T H P M S C F S 143

481 CCATTCACAAAATCGATGTGCAGTTGTAGCCTGTGCTGGTGGATCATTCACTGG 540
 144 I H K T R C A V V A C A V V W I I S L V 163

541 TAGCTGTCATTCCGATGACCTTCTTGATCACATCAACCAACAGGACCAACAGATCAGCCT 600
 164 A V I P M T F L I T S T N R T N R S A C 183

601 GTCTCGACCTCACCAAGTTGGATGAACTCAATACTATTAAGTGGTACAACCTGATTG 660
 184 L D L T S S D E L N T I K W Y N L I L T 203

661 CTGCAACTACTTTCTGCCTCCCCCTGGTGTAGTGACACTTGCTATACCAACGATTATCC 720
 204 A T T F L P L V I V T L C Y T T I I H 223

721 ACACTCTGACCCATGGACTGCAAACACTGACAGCTGCCTTAAGCAGAAAGCACGAAGGCTAA 780
 224 T L T H G L Q T D S C L K Q K A R R L T 243

781 CCATTCGCTACTCCTTGCATTACGTATGTTTTACCCCTCCATATCTTGAGGGTCA 840
 244 I L L L L A F Y V F L P F H I L R V I 263

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Figure 1B

841	TTCGGATCGAATCTCGCCTGCTTCAATCAGTTGTTCATTGAGAATCAGATCCATGAAG	900
264	R I E S R L L S I S C S I E N Q I H E A	283
901	CTTACATCGTTCTAGACCATTAGCTGCTCTGAACACCTTGGTAACCTGTTACTATATG	960
284	Y I V S R P L A A L N T F G N L L L Y V	303
961	TGGTGGTCAGCGACAACTTTCAGCAGGCTGTGCTCAACAGTGAGATGCAAAGTAAGCG	1020
304	<u>V</u> <u>V</u> S D N F Q Q A V C S T V R C K V S G	323
1021	GGAACCTTGAGCAAGCAAAGAAAATTAGTTACTCAAACAACCCCTGAAATATTCATTTA	1080
324	N L E Q A K K I S Y S N N P	337
1081	C 1081	

Figure 2A

P2YR_CHICK MTEALISAALNCTQPELLAG.G. W.....AAGNATTKCSLTKTGFQ
 P2YR_MELGA MTEALISAALNCTQPELLAG.G. W.....AAGNASTKCSLTKTGFQ
 P2YR_MOUSE MTEVPWSVVPNGIDAAFLAGLGSILGNSTVAAAVSSSFQCALTKTGFQ
 P2YR_RAT MTEVPWSAVPNCIDAAFLAGLGSILGNSTIAATAAVSSSFQCALIKTGFQ
 P2YR_BOVIN MTEVLWPAVPNCIDAAFLADPGSPWGNSTVAAAVASPFKCALTKTGFQ
 P2YR_HUMAN MTEVLWPAVPNCIDAAFLAGPGSSWGNSTVAAAVSSSFQCALTKTGFQ
 O35811 ~~~~~MTSAESLLEFTS.LGP.SPSSGDG.....DCRFNE.EFK
 P2Y4_HUMAN ~~~~~MCTESSSLRS.LGL.SPGPGESEVEL...DCWFDE.DFK
 O57466 ~~~MDAPVRMFLAPWTPTP.TP...LGGNTAAAEA...KCVFNE.EFK
 P2Y8_XENLA ~~~MTEDIMATCYPTEIITTPYLPMKLLMNLNDTED...ICVFDE.GFK
 P2UR_RAT ~~~~~MAGLDSWNSTINGIWEDELGYKCRFNE.DFK
 P2Y3_CHICK ~~~~~MSMANFTGGRNSCTFHE.EFK
 HGPRBMY23 ~~~~~MNEPLDMLANASDFPDYAAAFGNCTDENIPLK

P2YR_CHICK FYYLPTVYIIVFETGELGNNSVAI WMFVPHMRPWSLISVYMFNLALADFL
 P2YR_MELGA FYYLPTVYIIVFETGELGNNSVAI WMFVPHMRPWSLISVYMFNLALADFL
 P2YR_MOUSE FYYLPAVYIIVFETGELGNNSVAI WMFVPHMRPWSLISVYMFNLALADFL
 P2YR_RAT FYYLPAVYIIVFETGELGNNSVAI WMFVPHMRPWSLISVYMFNLALADFL
 P2YR_BOVIN FYYLPAVYIIVFETGELGNNSVAI WMFVPHMRPWSLISVYMFNLALADFL
 P2YR_HUMAN FYYLPAVYIIVFETGELGNNSVAI WMFVPHMRPWSLISVYMFNLALADFL
 O35811 FILLPMSYAVVFWIGLALNAPTD WEFIFPDRPDDATYMFHLALSDTL
 P2Y4_HUMAN FILLPMSYAVVFWIGLGLNAPTD WEFIFPDRPDDATYMFHLALSDTL
 O57466 FILLPMSYGVFWIGLPLNSWAI WEFVSMRPNWATYMFNLALSDTL
 P2Y8_XENLA FILLPMSYSAVFWIGLPLNIAAM WEFIAKMRPNPDEVYMFNLALSDTL
 P2UR_RAT MFLLPMSYGVWCVIGLCINVVAI MFLFCRKTWNASUTYMFHLAVSDSL
 P2Y3_CHICK QVLLPMSYVSVFIIIGLPINAVVLIGQFVAA...ALDRFTHYMLNLAADLL
 HGPRBMY23 MHYLPMSYIYG...FINGFEGNAVVIS.TMFLKMRPKSSDEIMLNACTDIL

P2YR_CHICK YVLNLPALIYYYFNKTDWIFGDVMCKLORFIFHVNLYGSILFLTCISVHR
 P2YR_MELGA YVLNLPALIYYYFNKTDWIFGDVMCKLORFIFHVNLYGSILFLTCISVHR
 P2YR_MOUSE YVLNLPALIYYYFNKTDWIFGDAMCKLORFIFHVNLYGSILFLTCISAHR
 P2YR_RAT YVLNLPALIYYYFNKTDWIFGDAMCKLORFIFHVNLYGSILFLTCISAHR
 P2YR_BOVIN YVLNLPALIYYYFNKTDWIFGDAMCKLORFIFHVNLYGSILFLTCISAHR
 P2YR_HUMAN YVLNLPALIYYYFNKTDWIFGDAMCKLORFIFHVNLYGSILFLTCISAHR
 O35811 YVLSLPTLWYYAAAHNHWPFGTGECKFIFYWNLYCSNLFLTCISVHR
 P2Y4_HUMAN YVLSLPTLWYYAAAHNHWPFGTGECKFIFYWNLYCSNLFLTCISVHR
 O57466 YVSLPLTLYYYADKNNWFGCIVCKLWRFIFYANLYSSILFLTCISVHR
 P2Y8_XENLA YVLSLPTLWYYADKNNWFGCIVCKLWRFIFYTNLYCSILFLTCISVHR
 P2UR_RAT YAASLPLLWYYAAGDHWPESTVICKLWRFIFYTNLYCSILFLTCISVHR
 P2Y3_CHICK YVCSLPLLWYYTDKDYWPFGDFTCFIFRFQFYTNLHGSILFLTCISVOR
 HGPRBMY23 YTSPLPFLIHYYASGENWIFGDFMCKFIFRFSFHFNLYSSILFLTCFSIFR

P2YR_CHICK YTGVVHPLKSLGRIK.KKNAAMYVSSLVVAIIVVAV.IAPILFMSGTGVRKN
 P2YR_MELGA YTGVVHPLKSLGRIK.KKNAAMYVSSLVVAIIVVAV.IAPILFMSGTGVRKN
 P2YR_MOUSE YSGVWYPLKSLGRIK.KKNAFYVSSLVVAIIVVAV.ISPILFMSGTGTRKN
 P2YR_RAT YSGVWYPLKSLGRIK.KKNAFYVSSLVVAIIVVAV.ISPILFMSGTGIRKN
 P2YR_BOVIN YSGVWYPLKSLGRIK.KKNAFYVSSLVVAIIVVAV.ISPILFMSGTGIRKN
 P2YR_HUMAN YSGVWYPLKSLGRIK.KKNAFYVSSLVVAIIVVAV.ISPILFMSGTGVRKN
 O35811 YLGICHPPLRARWGR.PFASLICHGWW.IVVAACIVPNLFIVITNANCT
 P2Y4_HUMAN YLGICHPPLRARWGR.PFAGLICHAIVVVAACIVPNLFIVITSNKGT
 O57466 YMGIICHPPLRSLKWKV.TKHARLPCMGWW.PVVTICITPNLITVITSSKDN
 P2Y8_XENLA YRGVCHPITSLRRRN.AKHAYVTCALVW.ISVTLCIVPNLIEVIVSPVKV
 P2UR_RAT CLGVVERPLHSLSWGH.ARYARRAAAVVW.IVIVLACOAPELSEVITSVRGT
 P2Y3_CHICK YMGIICHPPLASWHKKGKLTWLCAAAVWFIVIAQCH.PTFVIASTGTON
 HGPRBMY23 YCVTICHPVSCFS.IHKTICANVACAVVIIISHVVI.PMTFLIESTNRTN

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Figure 2B

P2YR_CHICK R₁T₂T₃CYDT₄T₅A₆E₇Y₈L₉R₁₀S₁₁Y₁₂F₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀L₃₁R₃₂Y₃₃K₃₄
 P2YR_MELGA R₁T₂T₃CYDT₄T₅A₆E₇Y₈L₉R₁₀S₁₁Y₁₂F₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀L₃₁R₃₂Y₃₃K₃₄
 P2YR_MOUSE R₁T₂T₃CYDT₄T₅A₆E₇Y₈L₉R₁₀S₁₁Y₁₂F₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀L₃₁R₃₂Y₃₃K₃₄
 P2YR_RAT R₁T₂T₃CYDT₄T₅A₆E₇Y₈L₉R₁₀S₁₁Y₁₂F₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀L₃₁R₃₂Y₃₃K₃₄
 P2YR_BOVIN R₁T₂T₃CYDT₄T₅A₆E₇Y₈L₉R₁₀S₁₁Y₁₂F₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀L₃₁R₃₂Y₃₃K₃₄
 P2YR_HUMAN R₁T₂T₃CYDT₄T₅A₆E₇Y₈L₉R₁₀S₁₁Y₁₂F₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀L₃₁R₃₂Y₃₃K₃₄
 O35811 T₁I₂D₃H₄T₅I₆L₇P₈E₉F₁₀E₁₁F₁₂D₁₃H₁₄V₁₅Y₁₆S₁₇A₁₈M₁₉V₂₀L₂₁E₂₂F₂₃P₂₄E₂₅F₂₆T₂₇E₂₈V₂₉C₃₀G₃₁L₃₂I₃₃R₃₄L₃₅Y₃₆K₃₇
 P2Y4_HUMAN T₁V₂T₃C₄H₅D₆T₇I₈E₉F₁₀E₁₁F₁₂D₁₃H₁₄V₁₅Y₁₆S₁₇A₁₈M₁₉G₂₀L₂₁F₂₂G₂₃P₂₄C₂₅T₂₆L₂₇V₂₈C₂₉G₃₀L₃₁A₃₂R₃₃L₃₄Y₃₅Q₃₆
 O57466 S₁T₂D₃H₄T₅I₆L₇P₈E₉F₁₀E₁₁F₁₂D₁₃H₁₄V₁₅Y₁₆S₁₇A₁₈M₁₉L₂₀P₂₁F₂₂P₂₃E₂₄F₂₅T₂₆E₂₇V₂₈C₂₉G₃₀L₃₁A₃₂R₃₃L₃₄Y₃₅Q₃₆
 P2Y8_XENLA N₁T₂I₃D₄H₅T₆I₇E₈F₉E₁₀F₁₁D₁₂H₁₃V₁₄Y₁₅S₁₆A₁₇M₁₈C₁₉L₂₀F₂₁G₂₂P₂₃C₂₄T₂₅E₂₆G₂₇C₂₈Y₂₉G₃₀L₃₁R₃₂K₃₃
 P2UR_RAT R₁T₂I₃D₄H₅T₆I₇E₈F₉E₁₀F₁₁D₁₂H₁₃V₁₄Y₁₅S₁₆A₁₇M₁₈C₁₉L₂₀F₂₁G₂₂P₂₃C₂₄T₂₅E₂₆G₂₇C₂₈Y₂₉G₃₀L₃₁R₃₂K₃₃
 P2Y3_CHICK R₁T₂I₃D₄H₅T₆I₇E₈F₉E₁₀F₁₁D₁₂H₁₃V₁₄Y₁₅S₁₆A₁₇M₁₈C₁₉L₂₀F₂₁G₂₂P₂₃C₂₄T₂₅E₂₆G₂₇C₂₈Y₂₉G₃₀L₃₁R₃₂K₃₃
 HGPRBMY23 S₁A₂C₃L₄D₅T₆S₇S₈I₉N₁₀L₁₁K₁₂W₁₃Y₁₄N₁₅I₁₆T₁₇A₁₈T₁₉F₂₀C₂₁F₂₂L₂₃T₂₄C₂₅Y₂₆T₂₇T₂₈C₂₉T₃₀L₃₁H₃₂T₃₃

 P2YR_CHICK D₁H₂I₃N₄... SPLRRKSIYLV₆I₇I₈L₉T₁₀V₁₁F₁₂A₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀D₃₁F₃₂Q₃₃
 P2YR_MELGA D₁H₂I₃N₄... SPLRRKSIYLV₆I₇I₈L₉T₁₀V₁₁F₁₂A₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀D₃₁F₃₂Q₃₃
 P2YR_MOUSE D₁H₂I₃N₄... SPLRRKSIYLV₆I₇I₈L₉T₁₀V₁₁F₁₂A₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀D₃₁F₃₂Q₃₃
 P2YR_RAT D₁H₂I₃N₄... SPLRRKSIYLV₆I₇I₈L₉T₁₀V₁₁F₁₂A₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀D₃₁F₃₂Q₃₃
 P2YR_BOVIN D₁H₂I₃N₄... SPLRRKSIYLV₆I₇I₈L₉T₁₀V₁₁F₁₂A₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀D₃₁F₃₂Q₃₃
 P2YR_HUMAN D₁H₂I₃N₄... SPLRRKSIYLV₆I₇I₈L₉T₁₀V₁₁F₁₂A₁₃V₁₄S₁₅M₁₆C₁₇P₁₈F₁₉E₂₀I₂₁L₂₂G₂₃C₂₄Y₂₅G₂₆L₂₇I₂₈R₂₉A₃₀D₃₁F₃₂Q₃₃
 O35811 ..PLPGACOSSSR₆R₇S₈R₉S₁₀I₁₁A₁₂V₁₃L₁₄T₁₅V₁₆F₁₇A₁₈C₁₉F₂₀E₂₁H₂₂T₂₃T₂₄Y₂₅Y₂₆A₂₇L₂₈Q₂₉A₃₀L₃₁
 P2Y4_HUMAN ..PLPGACOSSSR₆R₇S₈R₉S₁₀I₁₁A₁₂V₁₃L₁₄T₁₅V₁₆F₁₇A₁₈C₁₉F₂₀E₂₁H₂₂T₂₃T₂₄Y₂₅Y₂₆A₂₇L₂₈Q₂₉A₃₀L₃₁
 O57466 S₁F₂P₃S₄P₅R₆V₇P₈R₉S₁₀I₁₁A₁₂V₁₃L₁₄T₁₅V₁₆F₁₇A₁₈C₁₉F₂₀E₂₁H₂₂T₂₃T₂₄Y₂₅Y₂₆A₂₇L₂₈Q₂₉A₃₀L₃₁
 P2Y8_XENLA I₁SGNQQTLP₃S₄K₅S₆T₇K₈I₉F₁₀V₁₁M₁₂A₁₃F₁₄C₁₅P₁₆H₁₇T₁₈T₁₉Y₂₀Y₂₁A₂₂L₂₃G₂₄I₂₅Y₂₆Y₂₇Y₂₈Y₂₉Y₃₀Y₃₁
 P2UR_RAT AYCTTG ..LPRAKR₆K₇M₈R₉A₁₀V₁₁L₁₂A₁₃V₁₄F₁₅A₁₆C₁₇F₁₈P₁₉H₂₀V₂₁T₂₂Y₂₃S₂₄F₂₅H₂₆E₂₇T₂₈K₂₉Y₃₀L₃₁
 P2Y3_CHICK D₁E₂I₃G₄L₅A₆F₇A₈I₉A₁₀V₁₁K₁₂A₁₃K₁₄A₁₅T₁₆P₁₇F₁₈A₁₉S₂₀V₂₁F₂₂S₂₃T₂₄K₂₅L₂₆I₂₇V₂₈R₂₉S₃₀A₃₁S₃₂
 HGPRBMY23 ..GLQTD₃S₄C₅L₆O₇K₈A₉L₁₀T₁₁I₁₂A₁₃L₁₄F₁₅A₁₆V₁₇C₁₈F₁₉H₂₀V₂₁R₂₂E₂₃S₂₄R₂₅I₂₆E₂₇Y₂₈R₂₉E₃₀S₃₁

 P2YR_CHICK R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_MELGA R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_MOUSE R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_RAT R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_BOVIN R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_HUMAN R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 O35811 ..R₁G₂S₃K₄P₅K₆P₇A₈T₉A₁₀F₁₁E₁₂T₁₃A₁₄F₁₅A₁₆F₁₇E₁₈H₁₉T₂₀E₂₁T₂₂E₂₃... D₂₄R₂₅W₂₆A₂₇D₂₈H₂₉T₃₀Q₃₁
 P2Y4_HUMAN ..R₁G₂G₃K₄P₅K₆P₇A₈T₉A₁₀F₁₁E₁₂T₁₃A₁₄F₁₅A₁₆F₁₇E₁₈H₁₉T₂₀E₂₁T₂₂E₂₃... D₂₄R₂₅W₂₆A₂₇D₂₈H₂₉T₃₀Q₃₁
 O57466 ..R₁G₂A₃A₄Q₅R₆P₇V₈P₉T₁₀S₁₁E₁₂T₁₃A₁₄F₁₅A₁₆F₁₇E₁₈H₁₉T₂₀E₂₁T₂₂E₂₃... D₂₄R₂₅W₂₆A₂₇D₂₈H₂₉T₃₀Q₃₁
 P2Y8_XENLA R₁R₂R₃S₄V₅P₆N₇R₈C₉M₁₀H₁₁P₁₂E₁₃H₁₄P₁₅V₁₆I₁₇A₁₈E₁₉I₂₀P₂₁G₂₂P₂₃V₂₄S₂₅N₂₆G₂₇M₂₈V₂₉R₃₀E₃₁
 P2UR_RAT E₁P₂T₃P₄S₅P₆Q₇A₈R₉P₁₀N₁₁L₁₂G₁₃L₁₄H₁₅I₁₆R₁₇P₁₈N₁₉T₂₀R₂₁K₂₂D₂₃... L₂₄S₂₅I₂₆S₂₇R₂₈T₂₉P₃₀G₃₁E₃₂
 P2Y3_CHICK D₁R₂M₃S₄K₅W₆R₇D₈H₉C₁₀I₁₁Y₁₂G₁₃S₁₄...
 HGPRBMY23 VSGNLEQAK₆K₇I₈S₉M₁₀N₁₁P₁₂...

 P2YR_CHICK R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_MELGA R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_MOUSE R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_RAT R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_BOVIN R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R₂₉A₃₀
 P2YR_HUMAN R₁K₂S₃E₄P₅N₆V₇Q₈S₉S₁₀E₁₁M₁₂T₁₃L₁₄I₁₅T₁₆E₁₇Y₁₈K₁₉N₂₀G₂₁D₂₂I₂₃... F₂₄R₂₅R₂₆I₂₇S₂₈R

Figure 2C

P2YR_CHICK ~~~~~
 P2YR_MELGA ~~~~~
 P2YR_MOUSE ~~~~~
 P2YR_RAT ~~~~~
 P2YR_BOVIN ~~~~~
 P2YR_HUMAN ~~~~~
 O35811 SAYEGDRL~~~~~
 P2Y4_HUMAN STPRADRL~~~~~
 O57466 MGTVVWSRGQQ~~~~~
 P2Y8_XENLA EGSREHHRVEWTDTKEINQMMNRRSTIKRNSTDKNMDKENRHGENYLPYVE
 P2UR_RAT KDIRL~~~~~
 P2Y3_CHICK ~~~~~
 HGPRBMY23 ~~~~~

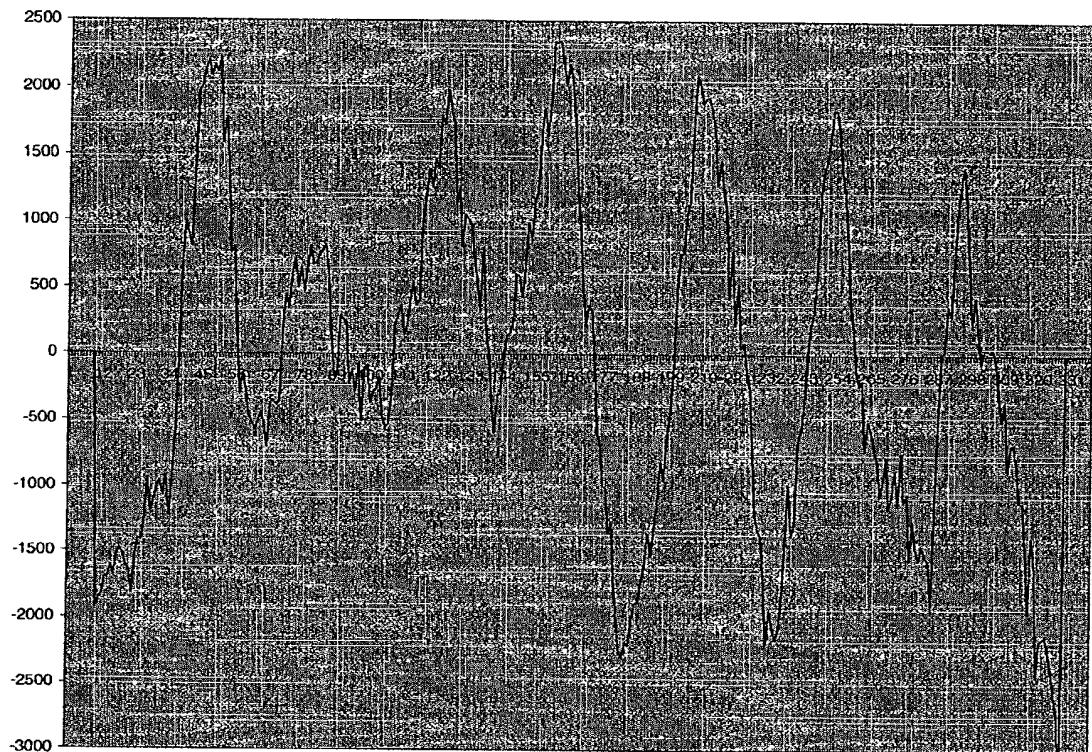
 P2YR_CHICK ~~~~~
 P2YR_MELGA ~~~~~
 P2YR_MOUSE ~~~~~
 P2YR_RAT ~~~~~
 P2YR_BOVIN ~~~~~
 P2YR_HUMAN ~~~~~
 O35811 ~~~~~
 P2Y4_HUMAN ~~~~~
 O57466 ~~~~~
 P2Y8_XENLA VVEKEDYETKRENRTTEQSSKTNAEQDELQTQIDSRLKRGKWLSSKKG
 P2UR_RAT ~~~~~
 P2Y3_CHICK ~~~~~
 HGPRBMY23 ~~~~~

 P2YR_CHICK ~~~~~
 P2YR_MELGA ~~~~~
 P2YR_MOUSE ~~~~~
 P2YR_RAT ~~~~~
 P2YR_BOVIN ~~~~~
 P2YR_HUMAN ~~~~~
 O35811 ~~~~~
 P2Y4_HUMAN ~~~~~
 O57466 ~~~~~
 P2Y8_XENLA AAQENEKGHMEPSFEGEGTSTWNLLTPKMYGKKDRLAKNVEEVGYGKEKE
 P2UR_RAT ~~~~~
 P2Y3_CHICK ~~~~~
 HGPRBMY23 ~~~~~

 P2YR_CHICK ~~~~~
 P2YR_MELGA ~~~~~
 P2YR_MOUSE ~~~~~
 P2YR_RAT ~~~~~
 P2YR_BOVIN ~~~~~
 P2YR_HUMAN ~~~~~
 O35811 ~~~~~
 P2Y4_HUMAN ~~~~~
 O57466 ~~~~~
 P2Y8_XENLA LQNFPKA
 P2UR_RAT ~~~~~
 P2Y3_CHICK ~~~~~
 HGPRBMY23 ~~~~~

D0077 NP

Figure 3



40010568 442263

D0077 NP

Figure 4

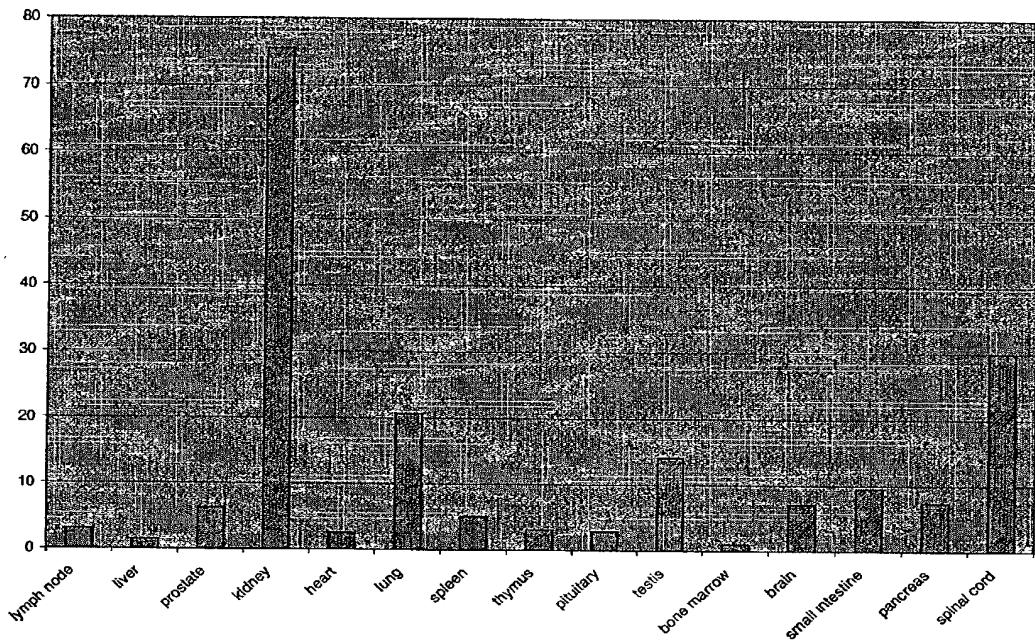


Figure 5.

<u>Protein</u>	<u>SWISS-PROT ACCESSION No</u>	<u>Identities</u>	<u>Similarities</u>
Chick purinergic receptor	P34996	36%	46%
Turkey purinergic receptor	P49652	36%	46%
Mouse purinergic receptor	P49650	36%	45%
Rat purinergic receptor	P49651	36%	45%
Bovine purinergic receptor	P48042	35%	46%
African clawed frog P2Y purinoceptor 8	P79918	35%	46%
Chick P2Ypurinoceptor 3	Q98907	35%	45%
Human purinergic receptor	P47900	34%	45%
Turkey G-protein coupled P2Y nucleotide receptor	O57466	34%	44%
Human uridine nucleotide receptor	P51582	32%	40%
Rat G-protein coupled receptor	O35811	31%	41%
Rat P2U purinergic receptor	P41242	30%	40%

40040568 4003264

Figure 6.

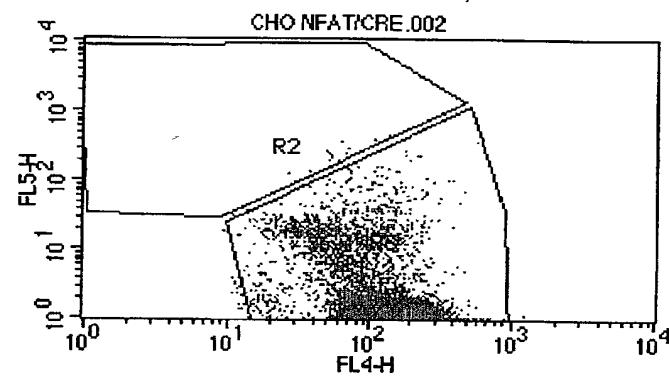
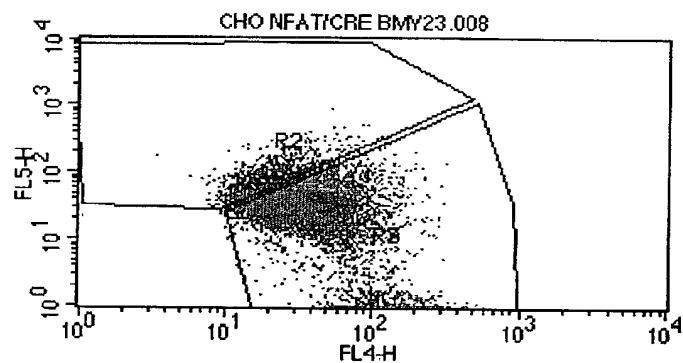


Figure 7.



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Figure 8.

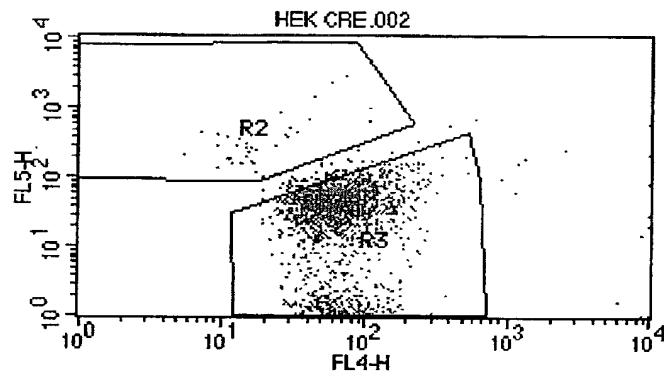


Figure 9.

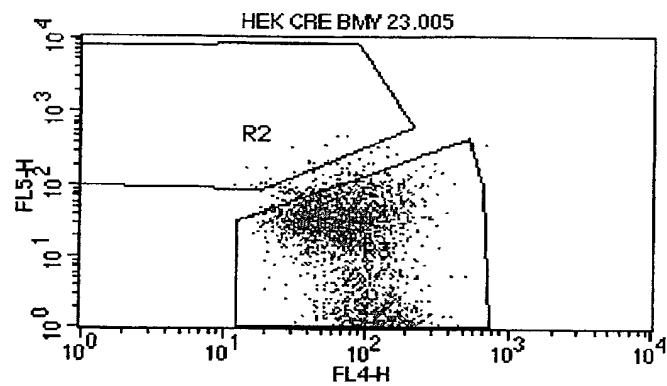


Figure 10.

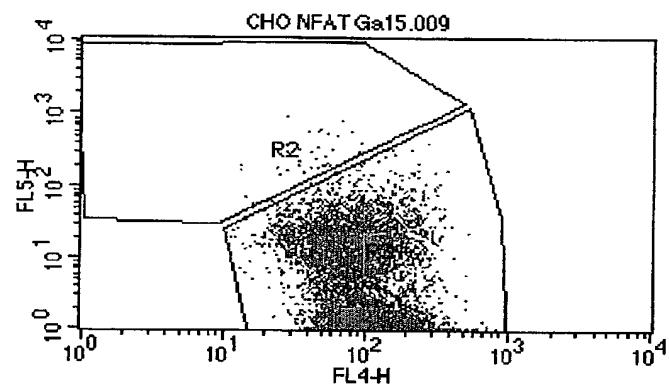
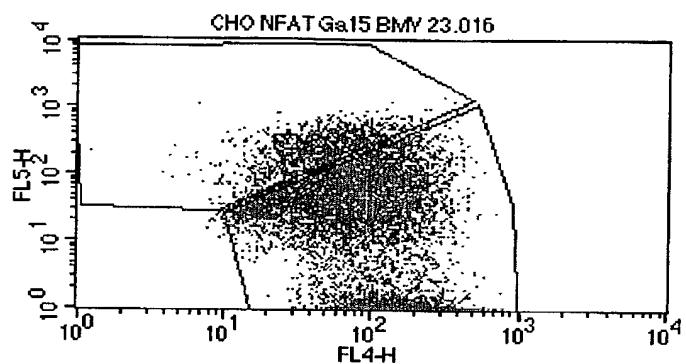


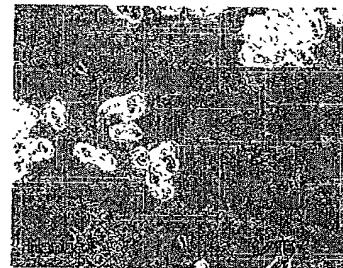
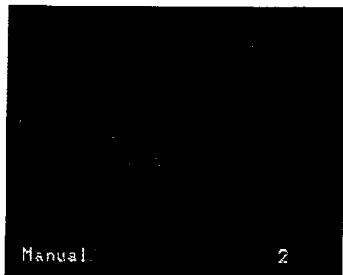
Figure 11.



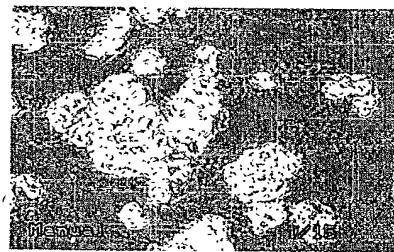
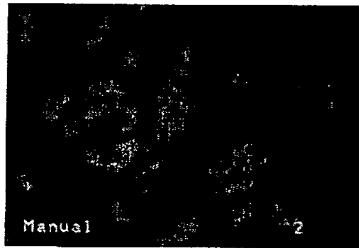
D0077 NP

Figure 12.

Cho NFAT Ga15 Control (Fluorescent vs. Bright Field)



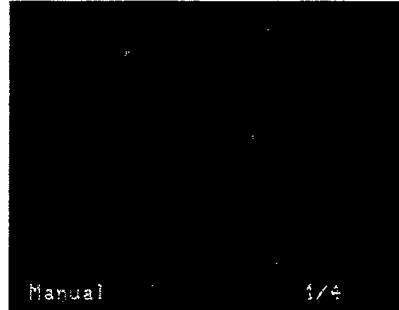
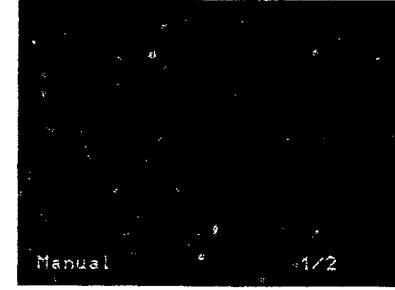
Cho NFAT Ga15 BMY23 (Fluorescent vs. Bright Field)



10000568-4202703

D0077 NP

Figure 13.



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